HP ProCurve Switch 5300xl Series

Product overview

Designed to accommodate the most demanding network needs, the ProCurve Switch 5300xl series offers scalable Layer 2, 3, and 4 switching in compact 4- or 8-slot modular form factors. These secure, convergence-ready switches provide flexibility, high port density, free software updates, and a lifetime warranty. The easy-to-use ProCurve Switch 5300xl series provides third-generation ASIC technology, with excellent investment protection and return on IT.

Features and benefits

Performance

- **Architecture:** up to 76.8 Gbps crossbar switching fabric provides wire-speed intra- and inter-module switching with up to 48 million pps throughput built on ProCurve custom-designed ASIC technology

Resiliency and high availability

- **Router redundancy (XRRP):** allows groups of two routers to dynamically back each other up to create highly available routed environments
- **IEEE 802.1s Multiple Spanning Tree:** provides high link availability in multiple VLAN environments by allowing multiple spanning trees
- **IEEE 802.1w Rapid Convergence Spanning Tree Protocol:** increases network uptime through faster recovery from failed links
- **IEEE 802.3ad Link Aggregation Control Protocol (LACP) and ProCurve trunking:** support up to 60 trunks, each with up to 8 links (ports) per trunk; trunking across modules is supported
- **Hot-swappable modules:** permit modules, mini-GBICs, and one of the power supplies in a redundant power supply configuration to be added or swapped without interrupting the network
- **Optional redundant power supply:** provides uninterrupted power; allows hot-swapping of one of the two supplies when installed

Manageability

- **User-driven port configuration support:** switch port configuration responds to RADIUS-stored user attributes for QoS and rate limiting when that user authenticates; these attributes are then determined by the user, not the switch port
- **RMON, XRMON, and sFlow:** provide advanced monitoring and reporting capabilities for statistics, history, alarms, and events
- **IEEE 802.1AB Link Layer Discovery Protocol (LLDP):** automated device discovery protocol for easy mapping by network management applications
- **Friendly port names:** allow assignment of descriptive names to ports
- **Auto-MDIX:** automatically adjusts for straight-through or crossover cables on all 10/100/1000 ports
- **Dual flash images:** provides independent primary and secondary OS and configuration files for backup while upgrading or fine-tuning the switch configuration
- **Multiple configuration files:** allow a config file to be stored for each flash image
- **Troubleshooting:** ingress/egress port monitoring enables network problem-solving
- **Custom banner:** displays security policy when users log in to the switch

Layer 2 switching

- **ProCurve switch meshing:** dynamically load-balances across multiple active redundant links to increase available aggregate bandwidth
- **VLAN support and tagging:** support complete IEEE 802.1Q (4,096 VLAN IDs) and 256 VLANs simultaneously
- **IEEE 802.1v protocol VLANs:** isolate select non-IPv4 protocols automatically into their own VLANs
- **GARP VLAN Registration Protocol:** allows automatic learning and dynamic assignment of VLANs

Layer 3 services

- **UDP helper function:** UDP broadcasts can be directed across router interfaces to specific IP unicast or subnet broadcast addresses and prevent server spoofing for UDP services such as DHCP

Layer 3 routing

- **Layer 3 IP routing:** provides routing of IP at media speed; supports static routes, RIP, RIPv2, and OSPF
- **OSPF-ECMP:** enables multiple equal-cost links in OSPF environment to increase link redundancy and scale bandwidth

Security

- **Virus throttling:** detects traffic patterns typical of WORM-type viruses and either throttles or entirely prevents the ability of the virus to spread across the routed VLANs, without requiring external appliances
- **ICMP throttling:** defeats ICMP denial-of-service attacks by enabling any switch port to automatically throttle ICMP traffic

- **Multiple user authentication methods:**
  - **IEEE 802.1X:** industry-standard method of user authentication using an IEEE 802.1X supplicant on the client in conjunction with a RADIUS server
  - **Web-based authentication:** similar to IEEE 802.1X, provides a browser-based environment to authenticate clients that do not support the IEEE 802.1X supplicant
  - **MAC-based authentication:** client is authenticated with the RADIUS server based on the client's MAC address
- **Authentication flexibility:**
  - **Multiple IEEE 802.1X users per port:** provides authentication of multiple IEEE 802.1X users per port; prevents user "piggybacking" on another user's IEEE 802.1X authentication
  - **Concurrent IEEE 802.1X and Web or MAC authentication schemes per port:** switch port will accept any of IEEE 802.1X and either Web or MAC authentications
- **Access control lists (ACLs):** provide IP Layer 3 filtering based on source/destination IP address/subnet and source/destination TCP/UDP port number
- **Identity-driven ACL:** enables implementation of a highly granular and flexible access security policy and VLAN assignment specific to each authenticated network user
- **Port security:** allows access only to specified MAC addresses, which can be learned or specified by the administrator
- **MAC address lockout:** prevents configured particular MAC addresses from connecting to the network
- **Source-port filtering:** allows only specified ports to communicate with each other
- **RADIUS/TACACS+:** eases switch management security administration by using a password authentication server
- **Secure Shell (SSHv2):** encrypts all transmitted data for secure, remote command-line interface (CLI) access over IP networks
- **Secure Sockets Layer (SSL):** encrypts all HTTP traffic, allowing secure access to the browser-based management GUI in the switch
- **Secure FTP:** allows secure file transfer to/from the switch; protects against unwanted file downloads or unauthorized copying of switch configuration file
- **Secure access to manage the ProCurve Switch 5300xl series:** all access methods–CLI, GUI, or MIB–are securely encrypted through SSHv2, SSL, and/or SNMPv3
- **Switch management logon security:** can require either RADIUS or TACACS+ authentication for secure switch CLI logon

Convergence

- **IP multicast routing (PIM Dense):** routes IP multicast traffic using the PIM Dense routing protocol
- **IP multicast snooping and data-driven IGMP:** automatically prevents flooding of IP multicast traffic
- **LLDP-MED (Media Endpoint Discovery):** a standard extension of LLDP that stores values for parameters such as QoS and VLAN to automatically configure network devices such as IP phones

Quality of Service (QoS)

- **Layer 4 prioritization:** enables prioritization based on TCP/UDP port numbers
- **Traffic prioritization (IEEE 802.1p):** allows real-time traffic classification into eight priority levels mapped to eight queues
- **Class of Service (CoS):** sets the IEEE 802.1p priority tag based on IP address, IP Type of Service (ToS), L3 protocol, TCP/UDP port number, source port, and DiffServ
- **Bandwidth shaping:**
  - **Rate limiting:** per-port ingress-based enforced bandwidth maximums
  - **Guaranteed minimums:** per-port, per-queue egress-based guaranteed bandwidth minimums

Specifications

	HP ProCurve Switch 5308xl (J4819A)	HP ProCurve Switch 5372xl (J4848B)
Included accessories		3 HP ProCurve Switch xl 24-Port 10/100-TX Module (J4820B)
Ports	8 open module slots Supports a maximum of 192 auto-sensing 10/100 ports or 128 auto-sensing 10/100/1000 ports	5 open module slots 72 auto-sensing 10/100 ports (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX); Media Type: Auto-MDIX; Duplex: half or full Supports a maximum of 192 auto-sensing 10/100 ports or 128 auto-sensing 10/100/1000 ports
Power supplies	1 power-supply slots includes: 1 x J4839AHP ProCurve Switch gl/xl/vl Redundant Power Supply	1 power-supply slots includes: 1 x J4839AHP ProCurve Switch gl/xl/vl Redundant Power Supply
Physical characteristics		
Dimensions	15.3(d) x 17.4(w) x 8.75(h) in. (38.86 x 44.2 x 22.23 cm) (5U height)	15.3(d) x 17.4(w) x 8.75(h) in. (38.86 x 44.2 x 22.23 cm) (5U height)
Weight	26.65 lb. (12.0 kg), Fully loaded	31.05 lb. (14.08 kg), Fully loaded
Memory and processor		
Fabric	Motorola PowerPC @ 200 MHz, 12 MB flash, 32 MB SDRAM; packet buffer size: 36 MB	Motorola PowerPC @ 200 MHz, 12 MB flash, 32 MB SDRAM
Module		ARM7 @ 66 MHz, 128 KB flash, 128 KB SRAM, 18 MB RDRAM; packet buffer size: 36 MB
Mounting	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); horizontal surface mounting only	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); horizontal surface mounting only
Performance		
Latency	< 6 µs (FIFO)	< 6 µs (FIFO)
Throughput	up to 48 million pps	up to 48 million pps
Switch fabric speed	76.8 Gbps	76.8 Gbps
Routing table size	10,000 entries	10,000 entries
Environment		
Operating temperature	32°F to 104°F (0°C to 40°C)	32°F to 104°F (0°C to 40°C)
Operating relative humidity	15% to 95% @ 104°F (40°C), non-condensing	15% to 95% @ 104°F (40°C), non-condensing
Non-operating/Storage temperature	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)
Non-operating/Storage relative humidity	15% to 95% @ 149°F (65°C), non-condensing	15% to 95% @ 149°F (65°C), non-condensing
Altitude	up to 15,000 ft. (4.6 km)	up to 15,000 ft. (4.6 km)
Electrical characteristics		
Maximum heat dissipation	2152 BTU/hr (2270 kJ/hr)	2152 BTU/hr (2270 kJ/hr)
Voltage	100-127 / 200-240 VAC	100-127 / 200-240 VAC
Current	8.2 / 3.8 A	8.2 / 3.8 A
Power consumption	630 W	630 W
Frequency	50 / 60 Hz	50 / 60 Hz
Notes	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.
Safety	cUL (CSA 950); EN 60950/IEC 60950; NOM-019-SCFI-1994; UL 1950 3rd edition	cUL (CSA 950); EN 60950/IEC 60950; NOM-019-SCFI-1994; UL 1950 3rd edition
Emissions	FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A	FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A
Immunity		
EN	EN 55024, CISPR 24	EN 55024, CISPR 24
ESD	IEC 61000-4-2; 4 kV CD, 8 kV AD	IEC 61000-4-2; 4 kV CD, 8 kV AD
Radiated	IEC 61000-4-3; 3 V/m	IEC 61000-4-3; 3 V/m
EFT/Burst	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)
Surge	IEC 61000-4-5; 1 kV/2 kV AC	IEC 61000-4-5; 1 kV/2 kV AC
Conducted	IEC 61000-4-6; 3 V	IEC 61000-4-6; 3 V
Power frequency magnetic field	IEC 61000-4-8; 1 A/m, 50 or 60 Hz	IEC 61000-4-8; 1 A/m, 50 or 60 Hz
Voltage dips and interruptions	IEC 61000-4-11; >95% reduction, 0.5 period; 30% reduction, 25 periods	IEC 61000-4-11; >95% reduction, 0.5 period; 30% reduction, 25 periods
Harmonics	EN 61000-3-2, IEC 61000-3-2	EN 61000-3-2, IEC 61000-3-2
Flicker	EN 61000-3-3, IEC 61000-3-3	EN 61000-3-3, IEC 61000-3-3
Management	HP ProCurve Manager Plus; HP ProCurve Manager (included); command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C)	HP ProCurve Manager Plus; HP ProCurve Manager (included); command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C)

Specifications (continued)

	HP ProCurve Switch 5308xl (J4819A)	HP ProCurve Switch 5372xl (J4848B)
Services	3-year, 4-hour onsite, 13x5 coverage for hardware (UE244E) 3-year, 4-hour onsite, 24x7 coverage for hardware (UE245E) 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UE246E) 3-year, 24x7 SW phone support, software updates (UF787E) Installation with minimum configuration, system-based pricing (U4828E) Installation with HP-provided configuration, system-based pricing (U4832E) Refer to the HP Web site at www.procurve.com/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.	3-year, 4-hour onsite, 13x5 coverage for hardware (UE244E) 3-year, 4-hour onsite, 24x7 coverage for hardware (UE245E) 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UE246E) 3-year, 24x7 SW phone support, software updates (UF787E) Installation with minimum configuration, system-based pricing (U4828E) Installation with HP-provided configuration, system-based pricing (U4832E) Refer to the HP Web site at www.procurve.com/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

Standards and protocols
(applies to all products in series)

Device management
HTML and telnet management

General protocols
IEEE 802.1D MAC Bridges
IEEE 802.1p Priority
IEEE 802.1Q VLANs
IEEE 802.1s Multiple Spanning Trees
IEEE 802.1w Rapid Reconfiguration of Spanning Tree
IEEE 802.3ad Link Aggregation Control Protocol (LACP)
IEEE 802.3af Power over Ethernet
IEEE 802.3x Flow Control
RFC 768 UDP
RFC 783 TFTP Protocol (revision 2)
RFC 792 ICMP
RFC 793 TCP
RFC 826 ARP
RFC 854 TELNET
RFC 951 BOOTP
RFC 1058 RIPv1
RFC 1542 BOOTP Extensions
RFC 2030 Simple Network Time Protocol (SNTP) v4
RFC 2131 DHCP
RFC 2453 RIPv2
RFC 3046 DHCP Relay Agent Information Option

IP multicast
RFC 3376 IGMPv3
RFC 3973 PIM Dense Mode

MIBs
RFC 1213 MIB II
RFC 1493 Bridge MIB
RFC 1724 RIPv2 MIB
RFC 1850 OSPFv2 MIB
RFC 2021 RMONv2 MIB
RFC 2096 IP Forwarding Table MIB
RFC 2613 SMON MIB
RFC 2618 RADIUS Client MIB
RFC 2620 RADIUS Accounting MIB
RFC 2665 Ethernet-Like-MIB
RFC 2668 802.3 MAU MIB
RFC 2674 802.1p and IEEE 802.1Q Bridge MIB
RFC 2737 Entity MIB (Version 2)
RFC 2863 The Interfaces Group MIB

Network management
IEEE 802.1AB Link Layer Discovery Protocol (LLDP)
RFC 2819 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm) and 9 (events)
RFC 3176 sFlow
ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED)
SNMPv1/v2c/v3
XRMON

OSPF
RFC 2328 OSPFv2

QoS/Cos
RFC 2474 DiffServ Precedence, including 8 queues/port
RFC 2597 DiffServ Assured Forwarding (AF)
RFC 2598 DiffServ Expedited Forwarding (EF)

Security
IEEE 802.1X Port Based Network Access Control
RFC 1492 TACACS+
RFC 2138 RADIUS Authentication
RFC 2866 RADIUS Accounting
Secure Sockets Layer (SSL)
SSHv1/SSHv2 Secure Shell

Specifications

	HP ProCurve Switch 5348xl (J4849B)	HP ProCurve Switch 5304xl (J4850A)
Included accessories	2 HP ProCurve Switch xl 24-Port 10/100-TX Module (J4820B)	
Ports	2 open module slots 48 auto-sensing 10/100 ports (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX); Media Type: Auto-MDIX; Duplex: half or full Supports a maximum of 96 auto-sensing 10/100 ports or 64 auto-sensing 10/100/1000 ports	4 open module slots Supports a maximum of 96 auto-sensing 10/100 ports or 64 auto-sensing 10/100/1000 ports
Power supplies	1 power-supply slots includes: 1 x J4839AHP ProCurve Switch gl/xl/vl Redundant Power Supply	1 power-supply slots includes: 1 x J4839AHP ProCurve Switch gl/xl/vl Redundant Power Supply
Physical characteristics		
Dimensions	15.3(d) x 17.4(w) x 5.25(h) in. (38.86 x 44.2 x 13.34 cm) (3U height)	15.3(d) x 17.4(w) x 5.25(h) in. (38.86 x 44.2 x 13.34 cm) (3U height)
Weight	24.65 lb. (11.2 kg), Fully loaded	21.71 lb. (9.85 kg), Fully loaded
Memory and processor		
Fabric	Motorola PowerPC @ 200 MHz, 12 MB flash, 32 MB SDRAM	Motorola PowerPC @ 200 MHz, 12 MB flash, 32 MB SDRAM; packet buffer size: 36 MB
Module	ARM7 @ 66 MHz, 128 KB flash, 128 KB SRAM, 18 MB RDRAM; packet buffer size: 36 MB	
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Throughput	up to 24 million pps	up to 24 million pps
Switch fabric speed	38.4 Gbps	38.4 Gbps
Routing table size	10,000 entries	10,000 entries
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Operating relative humidity	15% to 95% @ 104°F (40°C), non-condensing	15% to 95% @ 104°F (40°C), non-condensing
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Flicker	EN 61000-3-3, IEC 61000-3-3	EN 61000-3-3, IEC 61000-3-3
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RFC 2138 RADIUS Authentication
RFC 2866 RADIUS Accounting
Secure Sockets Layer (SSL)
SSHv1/SSHv2 Secure Shell

HP ProCurve Switch 5300xl Series accessories

HP ProCurve Switch gl/xl/vl Redundant Power Supply (J4839A)
HP ProCurve 600 Redundant External Power Supply (J8168A)
HP ProCurve 610 External Power Supply (J8169A)
HP ProCurve Gigabit-SX-LC Mini-GBIC (J4858C)
HP ProCurve Gigabit-LX-LC Mini-GBIC (J4859C)
HP ProCurve Gigabit-LH-LC Mini-GBIC (J4860C)
HP ProCurve Gigabit 1000Base-T Mini-GBIC (J8177C)
NEW HP ProCurve 1000-BX-D SFP-LC Mini-GBIC (J9142B)
NEW HP ProCurve 1000-BX-U SFP-LC Mini-GBIC (J9143B)
HP ProCurve 10-GbE X2-SC SR Optic (J8436A)
HP ProCurve 10-GbE X2-SC LR Optic (J8437A)
HP ProCurve 10-GbE X2-SC ER Optic (J8438A)
HP ProCurve 10-GbE X2-CX4 Transceiver (J8440B)
HP ProCurve 10-GbE CX4 Media Converter (J8439A)
HP ProCurve Wireless Services Module 12 RP License (J9002A)

Wireless Access Controllers

HP ProCurve Wireless Edge Services xl Module (J9001A)
HP ProCurve Switch xl Access Controller Module (J8162A)

xl Modules

HP ProCurve Switch xl 24-Port 10/100-TX Module (J4820B)
HP ProCurve Switch xl 4-Port 100/1000-T Module (J4821B)
HP ProCurve Switch xl 4-Port Mini-GBIC Module (J4878B)
HP ProCurve Switch xl 12-Port 100-FX MTRJ Module (J4852A)
HP ProCurve Switch xl 24-Port 10/100-TX PoE Module (J8161A)
HP ProCurve Switch xl 16-Port 10/100/1000 Module (J4907A)
HP ProCurve Switch xl 1-Port 10-GbE X2 Module (J8988A)

Technology for better business outcomes

To learn more, visit www.hp.com/go/procurve

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ProCurve Networking